



# PRODUCT MANUAL Model 738

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- Read the safety and operating instructions before using any Spartan Tool product. Drain and sewer cleaning can be dangerous if proper procedures are not followed and appropriate safety gear is not utilized. Read the engine owners' manual for instructions and safety precautions on engine operation.
- Gasoline is extremely flammable and is explosive under certain conditions.
  - Refuel in a well ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area where the engine is refueled or where gasoline is stored.
  - Do not overfill the fuel tank (there should be no fuel in the filler neck). After refueling, make sure the tank cap is closed properly and securely.
- Before starting unit, be sure to wear personal protective equipment such as safety goggles or face shield and protective clothing such as gloves, coveralls or raincoat, rubber boots with metatarsal guards, and hearing protection.
- Carbon monoxide exhaust and/or gasoline fumes from this equipment can create a hazardous atmosphere in confined spaces (which may include, but are not limited to, manholes and septic tanks), closed garages or other areas which may not be properly ventilated. In particular, excess gasoline fumes can create an explosion hazard. Such hazardous atmospheres can cause death or severe injury. Do not operate this equipment with its cart (used to house the engine and gasoline tank) located in any confined space or area with inadequate ventilation. Operate this equipment only when the cart is located outdoors or in an open, well-ventilated area.
- Ensure the jet hose has been placed in the pipe a minimum of 6 feet before engaging the water pressure to prevent the hose from coming out of the pipe prematurely and causing injury.
- Always shut off the water pressure before pulling the hose out of the pipe. Mark the hose a minimum of 6 feet from the end to help ensure the hose is not accidentally pulled out of the pipe while still under pressure. Shut off the water pressure when the hose mark is encountered.
- Never point the wash gun at anyone while operating the unit. Injury may result.
- Drains and sewer can carry bacteria and other infectious micro-organisms or materials which can cause death or severe illness. Avoid exposing eyes, nose, mouth, ears, hands, and cuts and abrasions to waste water or other potentially infectious materials during drain and sewer cleaning operations. To further help protect against exposure to infectious materials, wash hands, arms and other areas of the body, as needed, with hot, soapy water and, if necessary, flush mucous membranes with water. Also, disinfect potentially contaminated equipment by washing such surfaces with a hot soapy wash using a strong detergent.
- For any questions, contact Spartan Tool at the address shown below.



**CAUTION:** Portions of the system can still be under pressure even if the unit is not operating.

#### **CONTACT US**

Spartan Tool LLC 1618 Terminal Rod Niles, MI 49120 800.435.3866 SpartanTool.com

#### **CALIFORNIA PROP. 65**

This product may contain an extremely small amount of lead in the coating. Lead is a material known to the State of California to cause cancer or reproductive toxicity.

## **Technical Information**



#### **GENERAL**

· Pipe Sizes: up to 12" diameter

Max Water Pressure: 2,000 psi

Max Water Flow: 12 GPM

#### SKID

Total Skid Weight with tank (Empty): 750 lbs.

· Total Skid Weight with tank (Full): 1550 lbs.

Total Skid Weight without tank: 590 lbs.

• Tank Capacity: 100 gal.

#### **ENGINE**

2 cylinder, air-cooled gasoline engine

Horsepower: 19 HP V-Twin

• Bore & Stroke: 2.96" x 2.99" cu. in.

Oil Capacity (with filter): 1.7 US qt

Alternator: 13 Amp

Starter: Electric

· Battery: 12 VDC

#### **PUMP**

Max Pressure: 2,000 psi

Max Water Output: 12 GPM

Max Temperature: 140° F

RPM: 1425

• Plungers: 3

#### **FEATURES**

- Triplex ceramic plunger pump delivers 2,000 psi at 12 GPM
- Compact installation for vans, trucks, pick-ups, and flatbed vehicles
- · Electric start engine
- · 90° pivoting multi-position hose reel
- · Automatic low-water shutoff
- Air-purge system protects against cold weather conditions
- · 8-gallon fuel tank
- Manhole hose protector included
- Equipped with 3/8" x 250' high pressure jetting hose
- Open and closed nozzles for 3/8 inch hose
- · Easily accessible pump inlet filter assembly
- · Low water shut down protection
- 100' of 5/8 water supply hose
- Pig-tail style hose rewind guide
- 5-position nozzle holder

#### SAFETY

- 12" nozzle anti-turn device
- Bright colored 15' leader hose

#### **OPTIONAL FEATURES**

- Venturi Pump
- Foot Pedal Valve
- Mobile Hose Reel
- · Various Special Application Nozzles
- · Wash Down Kit

## Jet Applications Areas

There are a wide variety of uses for the Spartan Model 738 Water Jet. Here are just a few:

Apartments/Hotels

Mains and garage drains, remove all grease and debris from main lines under the buildings.

Factories

Food processing plants and foundries have frequent drain and sewer blockages. Set up preventive maintenance contracts to avoid risk of total plant shutdown.

· Farms, Rural

Clean and spray barns, pens and heavy farm equipment, revitalize drain field in septic systems and field tile. Clear blockages in liquid manure system.

· Housing Authorities

Any drains, laundry lines, garbage chutes, clean-outs and many grease-removing applications.

Institutions

Clean-running drains and sewer lines are a "must" in hospitals, schools, prisons. Use in kitchens, remove lime deposits on buildings and clean parking lot drains.

Municipals

Open culverts for proper flood control, wash down manholes, clean lines in wastewater treatment plants.

Residential

Clean drain lines, septic lines, field tiles, culverts, swimming pools, surface cleaning and sandblasting.

Restaurants

Grease in drains is always a problem - Your Spartan Water Jet actually removes grease from the lines instead of simply punching a hole through the blockage, risking reaccumulation downstream.

## **Pump and Pressure System**



The pump and relief valve are the heart of your jet. They have been specifically designed for use with cold water (140°F max) for pipe jetting but can provide useful water flow for many other cleaning jobs using the optional wash down gun and special attachments. The positive displacement pump (each crankshaft revolution has to move a certain amount of water) uses 3 plungers (similar to pistons in an engine) to create water flow. Pressure is not created until the pump outlet is restricted with a valve or nozzle. The pump, valving, and hoses can support pressures up to 2,000 PSI.

- The regulator valve acts to direct the water flow to the water tank when the hose reel and gun valves are off or if nozzles provide too much restriction for total flow.
- Always use clean water to keep the regulator valve operating properly.



- The hose and nozzle are designed to allow full flow at 2,000 psi (3,200 engine rpm), and the wash down gun operates at 1,600 psi max pressure.
- If leaks develop in the system between the relief valve and hose reel valve (or gun valve) you will hear intermittent engine surges in by-pass as the by-pass pressure gradually drops and is built up again by the pump. Tighten or otherwise repair the leaks for smooth running.



Always stop engine and release pressure before any plumbing changes or repairs.



**CAUTION:** Because of the inherent hazards with high pressure, use only Spartan high pressure hoses and components when repairing your machine.



If the nozzles become worn or if the gun is used with the jet hose, the regulator valve allows the same total flow but at a lower pressure because the restriction is lower. Replace the nozzles in order to maintain the desired pressure.

If nozzles become plugged, the regulator valve will direct some of the flow back to the water tank while providing pressures over maximum regulator setting. If these pressures are seen with normal engine speed (3,200 RPM) check and clean the nozzles. When using optional lengths of 1/4" hose the operating pressure can also exceed maximum setting at full GPM. Reducing engines RPM will produce lower pressures to prevent regulator valve from by-passing off and on. Continued operation at pressures over 2,000 PSI can cause engine overheat and reduce engine life.



## **High Pressure Water Jetting**

High pressure water jetting is the utilization of high pressure water combined with sufficient water flow to remove debris in drain/sewer pipes. High pressure water jetting alone cannot do the job. You need proper flow to wash debris downstream where it can be collected and removed. High pressure water jetting can also be used to remove debris on surfaces.

A high pressure water jet consists of a pump, a motor or engine, a hose reel, a given length of hose, and a various assortment of nozzles.

A pipe is cleaned with a high pressure water jet by directing water pressure and flow through a nozzle. Controlled water pressure and flow propels a water jet through the sewer pipe allowing it to remove and wash away the obstruction (See Fig. 11-1).

Ideally, a sewer pipe is cleaned from the lower end of the pipe and the hose propels itself to the higher end of the pipe. By slowly withdrawing the jet hose, the water pressure and flow cleans the line most effectively. When it is impossible to clean from the lower end of the pipe, the pipe must be water jetted several times to remove all the debris. A skilled operator can effectively clean a drain/sewer regardless of the obstacles in his or her way.

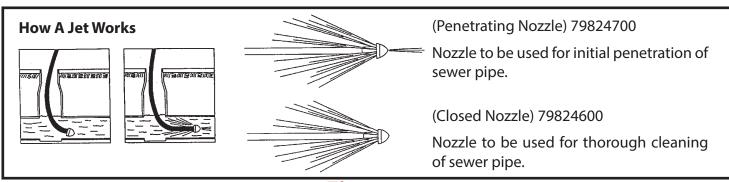


Fig. 11-



## Water Tank Filling

Fill the water tank from a clean water source. Always flush rust out of hydrants before connecting fill hose (with garden hose fitting) to top fill valve. Your water supply hose may remain connected for further filling by controlling water flow at fill valve.

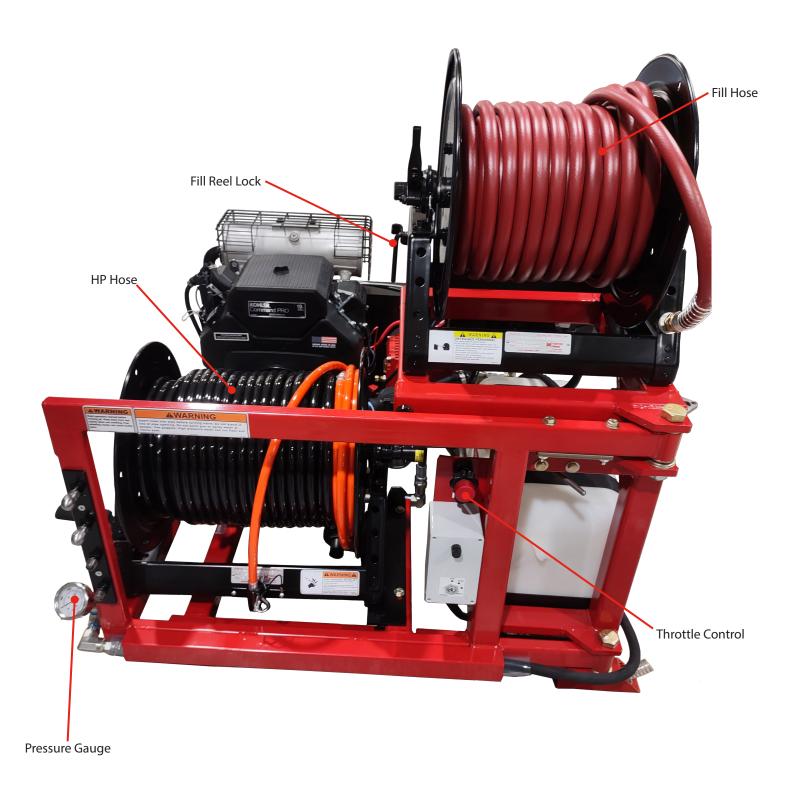
**NOTE:** If the next 4 items are not followed, cavitation of the pump could occur and reduce operating efficiency and severely damage the pump:



- Use water temperatures under 140°F.
- Ensure that water strainer is clean (check daily as needed).
- Make sure the strainer valve (between the tank and the pump) is fully open during operations. This valve stops tank flow to allow strainer service.
- The pump drain valve must be closed. It must not drip when engine is off and strainer valve is open.

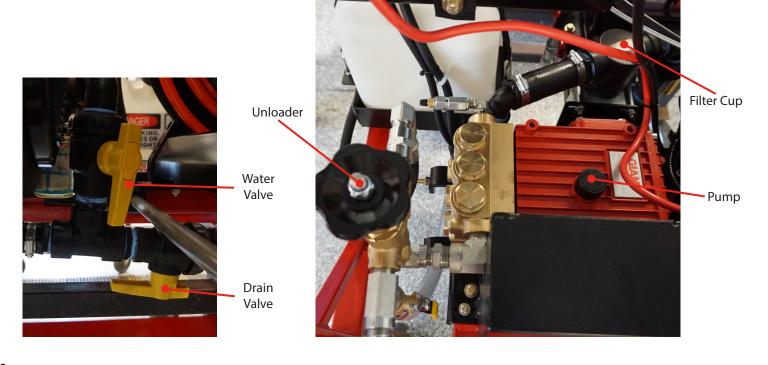
## Operator Controls





### **Operator Controls**





## **Operator Controls**



## **Engine Operation Procedure**

#### START UP

- 1. Check water tank level. This water jet is equipped with a low water shut-off switch that will prevent the engine from starting at low water levels.
- 2. Check fuel level.
  - Note: Also check engine and pump oil levels per manufacturer specifications (attached).
- 3. The hose reel valve may generally be placed on the ON (up) position during starting. However for manual start or marginal battery charge conditions, place the hose reel valve in the OFF (down) position for ease of starting.
- 4. Key-start the engine. Choke as necessary. Allow the engine to warm up at idle for 1 minute minimum.

#### **ENGINE SHUT-DOWN**

1. Turn the engine key switch OFF. (The engine key switch must be OFF when the engine is not running to avoid battery draining.)

## **Operation Set Up**



Always locate the jet in the driest and safest place possible. Avoid high traffic areas and use flashers and safety cones. Position the jet so that the hose can be pulled directly off of the reel for use. Remember that jetting is most effective when you jet against the water flow. See Fig. 13-1 for the recommended positioning of the jet for best visibility during manhole work.



NOTE: Loosening the hose and damaging corners are minimized when the jet is parked as shown.

When operating upon unlevel ground, position the unit with the hose reel end pointed downhill.



**HINT:** Unit must be level for water shutdown to operate correctly. When unit is on an incline with the tank near empty, enough water can be held in the lower corner of the tank to keep float switch in the operating position.

For non-manhole use, allow extra space for handling the hose before it is wound back on the reel or run the hose directly to the pipe inlet using extra hose guards to protect the hose from cutting when going around corners.

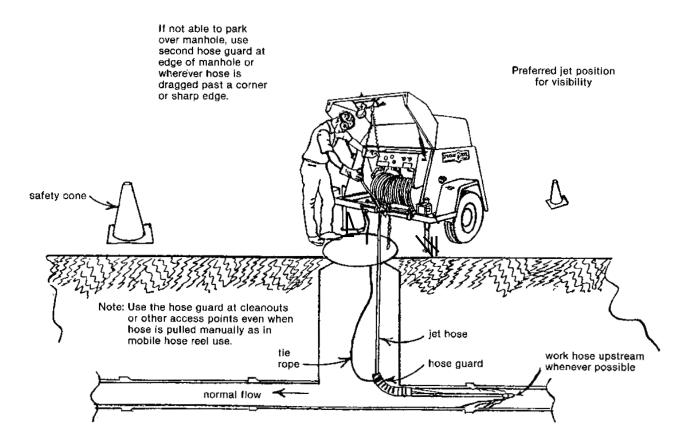


Fig. 13-1



## **Operating Instructions**

- Release the reel lock. Select and install the nozzle, hose guard(s) and roller guides.
- Always insert sewer hose several feet into the pipe opening before actuating hose reel valve. Never stand in front of the pipe opening when nozzle is near pipe opening. As described in "Setup Section," work upstream whenever possible.
- You are ready to start pipe cleaning operations after tank filling and engine starting procedures are followed. Advance engine throttle to full speed.



**NOTE:** At this time, put on safety goggles to prevent eye injury from flying water and debris.

- Now move the hose reel valve ON (up) and let out the hose as the nozzle pulls into the pipe. Untwist hose kinks as necessary before they enter the pipe. Proceed slowly and cautiously.
- Pull back 1-2 feet for every 4-5 feet of progress to make sure the hose is not burying itself or tying itself up in an open cavity or larger pipe. Continue working up the line while watching and feeling for speed changes as the nozzle makes its way into a blockage.
- When working over a manhole, you often will see dirty water, chunks of grease or debris flow past as the nozzle penetrates a blockage. When backed up water flows, the line is probably open. Continue working up the line to open restrictions as desired.
- Pull the "working" nozzle back slowly to re-clean and scour the pipe walls. When working through heavy and long blockages you may have to flush debris back to the machine every 5-10 feet. Repeat until the water runs clean from the pipe.



WARNING: Do NOT let engine run at full throttle without load (hose reel valve OFF) for longer than 1-2 minutes.

- The Model 738 will put out past 250' feet but you will find the going slower due to the pressure loss from the extra hose length.

  Unless longer operation is common, we recommend the hose extensions be added only when needed. If moving the jet before the job is done, the hose can be disconnected from the jet to avoid pulling hose completely out of the pipe and restarting.
- When finished, turn the water valve off (down) before removing the nozzle from the pipe.



**HINT:** Wind white tape around hose (a minimum of 6 feet from the end recommended) to warn of nozzle being too close to the pipe opening.

• Wind hose back onto reel, remove hose guard and install the hose end and nozzle in the holder. Put the pin in place. Lock the reel. Store all parts in tool box compartment. Idle engine for 30 seconds before stopping engine.



**REMINDER:** Engine key switch must be off to prevent battery drain when not using. Reverse setup instructions, drain tank and disconnect fill hose.

• Replace the manhole cover or pipe caps and clean up the machine before leaving the job site.

#### OPERATING HINTS

The following techniques can be tried if the going gets slow.

Grab the hose into an "S" shape and twist the hose to help it get around corners and off of pipe edges (see Fig. 8).

### **Operating Instructions**

- Turn the water valve off and pull the hose back out of the line. Look for traces of clay or other material to determine if nozzle is burying itself outside of the pipe.
- Try different nozzle or different pipe openings.
- Walk to nearby buildings and manholes and listen for a water sound to determine if hose is going where it should. The hose may tie itself up in a manhole and need help going into the next pipe. Use a pole or pipe to guide hose so entering the manhole can be avoided.

#### PIPE JETTING PROCEDURE

- Although the Model 738 Skid Mounted Water Jet is capable of various high pressure cleaning operations, jetting pipes of 4" 10" is typically the major work required of the jet. The hose reel is designed for outdoor applications. See sections on the mobile hose reel and 1/4" drain hose for indoor or remote applications and for lines smaller than 6".
- For **safety** reasons, always operate with 2 people when the pipe entrance is away from the jet location; one person should stay near the jet to control the machine operation while the other person works the hose and nozzle. The mobile hose reel should be used for remote control whenever the second person cannot be seen or heard by the machine operator.
- The sewer hose should always be replaced when the reinforcement cord can be seen due to a worn cover.
- The Model 738 nozzles are designed to match the pressure and flow performance of your jet. They are key to efficient operation because they convert all of the engine and pump power to water speed for hose pull and for cleaning impact.
- Nozzles "738 Closed" (73809400) and "738 Open" (73809300) are standard equipment. See parts section for part numbers to order additional nozzles or root cutters. Nozzle holes will wear after several months of continuous use. If the system operating pressure drops, try a new nozzle to check for wear. Check for nozzle plugging occasionally by removing the nozzle from the hose and holding up to the light. Clean by inserting small diameter wire if necessary. Plugged nozzles will cause poor hose pull even though the gauge pressure will show higher.

#### **ENCOUNTERING OBSTRUCTIONS**

- When obstruction or corners are encountered it may be necessary to manually rotate the hose (See Fig. 8) to enable feed through that area. The rotation will cause the jetting nozzle to jump over or around those areas. When it becomes necessary to manually rotate the hose to clear obstructions, any rotations in one direction must be followed by an equal number in the opposite direction to prevent kinks from building in the hose.
- At times, it will be necessary to move the hose slightly in and out of the drain line to assist the jetting nozzle in clearing stubborn clogs, obstructions, or tight corners (See Fig. 9).

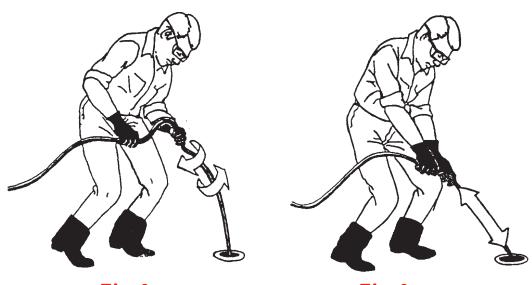


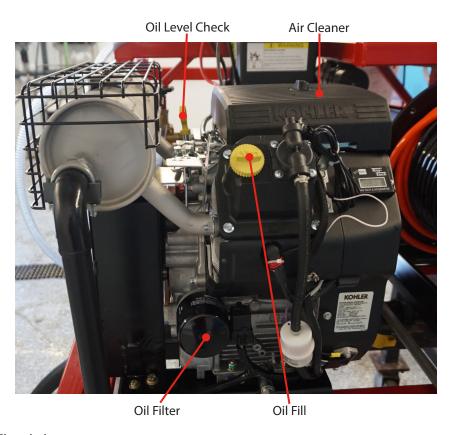
Fig. 8

Fig. 9



## **Lubrication & Maintenance**

#### Engine



See Periodic Maintenance Chart below. For fuel and oil recommendations see page 17. See Engine Owner's Manual for additional information.

Periodic Maintenance - Engine

	INTERVAL							
MAINTENANCE	Daily	First 8 hr.	Every 25 hr.	Every 50 hr.	Every 100 hr.	Every 200 hr.	Every 300 hr.	Every 400 hr
Check and add engine oil	•							
Check for loose or lost nuts and screws	•							
Check for fuel and oil leakage	•							
Check battery electrolyte level	•							
Check and clean radiator screen	•							
Tighten nuts and screws			•					
<ul> <li>Clean air cleaner foam element</li> </ul>			•					
<ul> <li>Clean air cleaner paper element</li> </ul>					•			
Change engine oil		•	-		•			
Clean and regap spark plug					•			
Change oil filter								
⋆ Replace air cleaner paper element							•	
K Clean combustion chamber							•	
K Check and adjust valve clearance							•	
K Clean and lap valve seating surface							•	
K Inspect radiator and hoses		-				•		
K Check fan belt conditions and tension						•		
K Change coolant								•

The service intervals indicated are to be used as a guide. Service should be performed more frequently as necessary by operating condition.
 Service more frequently under dusty conditions.
 Have an authorized Kawasaki engine dealer perform these services.

### **Lubrication & Maintenance**

#### **General Maintenance**

- Check entire unit daily for water, fuel, and oil leaks.
- Inspect machine daily for loose or lost nuts, bolts, etc.



- 1. Clean inlet filter daily.
- Check battery electrolyte level every week or 10 hours. Fill with distilled water if needed.

#### **Pump**



Change pump oil after first 50 hours of operation, then at regular intervals of 500 hours or less depending on operating conditions. Use SAE 90 Gear Oil.

## Fuel & Oil Recommendations

#### **FUEL**

Use only clean, fresh, unleaded regular grade gasoline.



**CAUTION:** Do not mix oil with gasoline.

**Octane Rating** The octane rating of a gasoline is a measure of its resistance to "knocking". Use a minimum of 87 octane of the antiknock is recommended. The antiknock index is posted on service station pumps in the U.S.A.

Note: If "knocking or pinging" occurs, use a different brand of gasoline or higher octane rating.

**Oxygenated Fuel** Oxygenates (either ethanol or MTBE) are added to the gasoline. If you use the oxygenated fuel be sure it is unleaded and meets the minimum octane rating requirements.

The following are the EPA approved percentages of fuel oxygenates.

ETHANOL: (Ethyl or Grain Alcohol) You may use gasoline containing up to 10% ethanol by volume.

MTBE: (Methyl Tertiary Butyl Ether) You may use gasoline containing up to 15% MTBE by volume.

METHANOL: (Methyl or Wood Alcohol) You may use gasoline containing up to 5% methanol by volume, as long as it also contains cosolvents and corrosion inhibitors to protect the fuel system. Gasoline containing more than 5% methanol by volume may cause starting and/or performance problems. It may also damage metal, rubber, and plastic parts of your fuel system.

#### **ENGINE OIL**

The following engine oils are recommended.

API Service Classifications: SF, SG, SH or SJ.

**Oil Viscosity** Choose the viscosity according to the temperance in the above chart.

*Note:* Using multi grade oils (5W-20, 10W30, and 10W40) will increase oil consumption. Check oil level more frequently when using them.

## **Optional Accessories**



#### **WASH DOWN GUN**

To use the wash-down gun, do the following:

- 1. Turn off by-pass valve (down).
- 2. Connect wash-down gun hose to end of 250 ft. hose.
- 3. Start unit and operate wash-down gun with hose reel valve in on (up) position.

The wash down gun is used to control the spray lance. The lance is attached by pulling back on the ring of the guns quick connect fitting. Insert adapter nipple of lance (or 1/4" hose) until ring can slide back to original position. The lance is equipped with an adjustable spray nozzle for general use. The wash down gun can also be used with the optional portable hose reel with 1/4" drain hose.



**CAUTION:** HOLD HAND GUN/WASH WAND WITH TWO HANDS AT ALL TIMES. Back pressure buildup on the wash wand/hand gun requires two hands firmly gripping the wand when the trigger is initially pulled.



**CAUTION:** Under no circumstances should you ever operate the wash down gun in the direction of any other person(s). To do so may cause serious damage to eyes or other bodily tissue and may even cause death.

#### 1/4" DRAIN HOSE

The 1/4" hose and nozzle may be used to clean smaller diameter lines. Attach the 1/4" hose to the forward end of the wash down gun as described above.

Use the 1/4" drain hose on lines 2"-4" similar to the reel hose. Again, use care not to discharge water unless the hose is in the pipe. On inside lines, use short bursts of the gun to limit water backup.



**NOTE:** If 50′, 75′ or 100′ 1/4″ hoses are used with the reel hose, the pressure gauge may read more than 1750 psi. Adjust engine speed to reduce to desired pressure to avoid engine overheat.

Part Number	Description
77719400	1/4" x 50' Hose
77719500	1/4" x 75' Hose
77708700	1/4" x 100' Hose

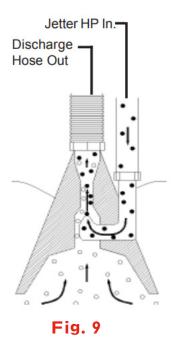
#### **MOBILE HOSE REEL - 73816800**

The mobile hose reel is for remote use and control of the sewer hose. 400' total length of hose is in the practical maximum with the 250' or 150' length on the machine reel and the balance on the mobile reel.

To use, attach the machine reel hose to the valve of the mobile reel. Attach nozzle to mobile reel hose and make sure the mobile reel valve is off (handle perpendicular to valve body). Start jet as usual and open machine hose reel valve.

Now move the mobile reel to the pipe opening and use as before, using the mobile valve to control water flow (put hose in pipe before opening valve). To rewind hose, stand on front plate and use crank provided.

### **Optional Accessories**



#### **VENTURI PUMP -**

How the Venturi Effect works:

The venturi effect uses the venturi pumping attachment and your Spartan Jetter to create a vacuum effect to drain standing water. In Fig. 9, the black circles represent water from the jetter and the white circles represent the water to be pumped. The venturi has two parts: the Venturi Throat, which is a restricted section of the suction tube; and above that is the venturi itself which is the part where the tube widens and connects to the discharge hose. The water from your Spartan Jetter is accelerated through a venturi restiction which causes it to increase speed causing a pressure drop and creates the vacuum that sucks in more water at the base of the attachment.

**Venturi Pumping Attachment Operating Instructions** 

- 1. Attach high pressure hose directly to the suction head of the venturi attachment.
- 2. Lower suction head into water or liquid to be pumped. The discharge hose is 15 ft. long and this determines the maximum depth or distance liquids can be pumped.
- 3. At a depth of 15 ft., the venturi attachment will pump 35-40 gpm. If additional lengths of discharge hose are added, the pumped volume will decrease accordingly.
- 4. Be sure to keep the pumping head submerged at all times to ensure steady, continuous operation.
- 5. Start engine and bring jet to full pressure. Use the ball valve on high pressure hose reel to control venturi operation.



### Maintenance

Pump	Change oil after the initial 50 hours and then every 500 hours or less thereafter, depending upon operating conditions. Use SAE 90 Gear Oil.
Engine	Follow maintenance instructions in the engine manual.
Hose	Hose should be replaced when braid is visible.
Battery	Check fluid every week or 10 hours and fill with distilled water if needed.

## **Cold Weather Protection**



Winterize machine when stored below 32° F.

Your machine can also be protected from freezing by using non alcohol based anti-freeze as follows:

#### METHOD 1

• Connect air hose to blow out fitting located near the pump to purge air from the entire system.

#### **METHOD 2**

- Drain tank completely.
- Add 50/50 mix anti-freeze to tank as follows:

- Remove nozzle and feed reel jetting hose into tank, open reel valve.
- Start engine and circulate water through system for 1 minute.
- Close reel valve and discharge water through gun and 1/4" hose if necessary.
- Check freeze protection of mix with tester and add more anti-freeze if necessary.
- Replace nozzle and hose.



**NOTE:** Some anti-freeze mixture can be caught and reused, but will have to be strengthened as necessary for adequate protection.

PROBLEM	POSSIBLE CAUSES	CORRECTIVE ACTION
	Worn or damaged nozzle.	Replace nozzle of proper size.
	Worn or damaged hose.	Repair or replace.
	Fouled inlet strainer.	Clean strainer.
	Broken Valve Spring.	Replace spring.
	Worn packing seals.	Replace packing seals.
The pressure and/or the delivery drops.	Fouled discharge valves.	Clean discharge valve assemblies.
	Worn or plugged relief valve on pump.	Clean, reset, and replace.
	Cavitation.	Check suction lines on inlet of pump for restrictions.
	Unloader.	Check for proper operation.
	Belt Slippage.	Tighten or replace belt.
	Accumulator pressure.	Recharge/replace accumulator.
	Worn packing.	Replace packing.
Rough/pulsating operation with pres- sure drop.	Inlet restriction.	Check system for stoppage, air leaks, and correctly sized inlet plumbing.
	Unloader	Check for proper operation.
	Cavitation.	Check inlet lines for restrictions and/or proper size.
Water in crankcase.	High humidity.	Reduce oil change interval.
water in Crankcase.	Worn seals.	Replace seals.
	Worn bearings.	Replace bearings, refill crankcase oil with recommended lubricant.
Noisy pump.	Cavitation.	Check inlet lines for restrictions and/or proper sizing.
	Low oil level.	Add oil.
	Worn or dirty valves.	Replace or clean.
Pressure drop at gun.	Restricted discharge plumbing.	Re-size discharge plumbing to flow rate of pump.
	Worn or cracked plungers.	Replace plungers.
	Worn packing/seals.	Adjust or replace packing seals.
Excessive leakage.	Excessive vacuum.	Reduce suction vacuum.
	Cracked plungers.	Replace plungers.
	Inlet pressure too high.	Reduce inlet pressure.
High crankcase temperature.	Wrong grade of oil.	Giant oil is recommended.
-righteranicase temperature.	Improper amount of oil in crankcase.	Adjust oil level to proper amount.

PROBLEM	POSSIBLE CAUSES	CORRECTIVE ACTION
	Check fuel levels.	Fill fuel tank.
Engine will not run.	Check fuel valve.	Turn fuel valve ON.
	Check water level.	Fill water tank or check low water shutdown.
	Clogged inlet filter.	Clean inlet filter element.
Low pressure or flow.	Jetting nozzle worn.	Check for wear on orifice of jetting nozzle, replace nozzle if necessary. Use only approved jetting nozzles.
	Worn or dirty pump valves.	Replace or clean.
Erratic flow or pressure.	Worn or dirty regulator parts.	Replace or clean.
	Worn jetting nozzle.	Replace jetting nozzle.
Water leaking from pump head.	Worn pump seals.	Replace pump seals.

### How To Use Parts & Accessories



Spartan Tool will supply all parts or accessories you require as quickly as possible. In order to do so, we must have information from you, including machine serial number and part numbers.

Please record the serial number of your machine in the space provided below:

Spartan Model 738 Skid Mount
Serial No. \_\_\_\_\_

To order parts, look through the pictures until you find the part you require or an indication of where the part should be. Using the item number from the picture, go to that number on the adjacent page and check the description to determine if it is the part you desire.

Using the part numbers, please contact your Spartan Territory Manager or the factory in Niles, Michigan or online at www.spartantool. com.

## Special Note

Though much of your Model 738 Skid Mount Jet is user serviceable, trained professional mechanics may be needed with pump, plumbing, engine, and lights.

- Engine repair is best performed by your local engine repairman.
- Contact Spartan Tool or consult the Pump Repair Manual for all pump repair or troubleshooting.
- All plumbing repairs should use Spartan parts. The high pressure plumbing has been designed for pressures greater than 2000 psi. Substituting parts is dangerous and voids Spartan warranties. Use standard pipe sealing compound or "Teflon" tape to seal all joints except swivel joints and hose nozzles (o-rings, seals, and tapered seat designs do not require sealing materials).

## Warranty Information



For our terms and conditions, including warranty, please visit <a href="https://spartantool.com/pages/terms-and-conditions">https://spartantool.com/pages/terms-and-conditions</a>. For warranty assistance, please contact us at (800) 435-3866 or customerservice@spartantool.com.

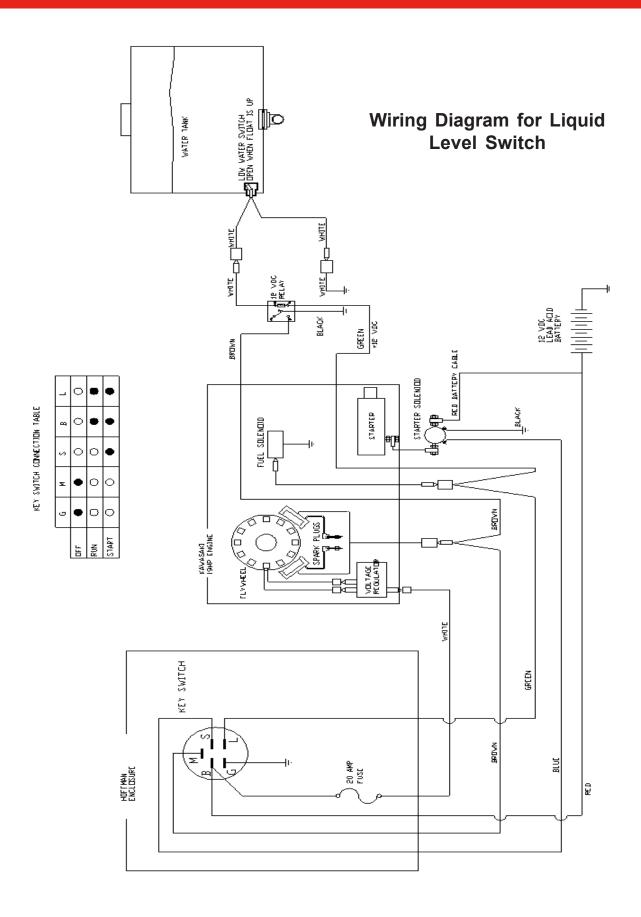
#### **CONTACT US**

Spartan Tool LLC 1618 Terminal Road Niles, MI 49120 800.435.3866 SpartanTool.com

### Notes

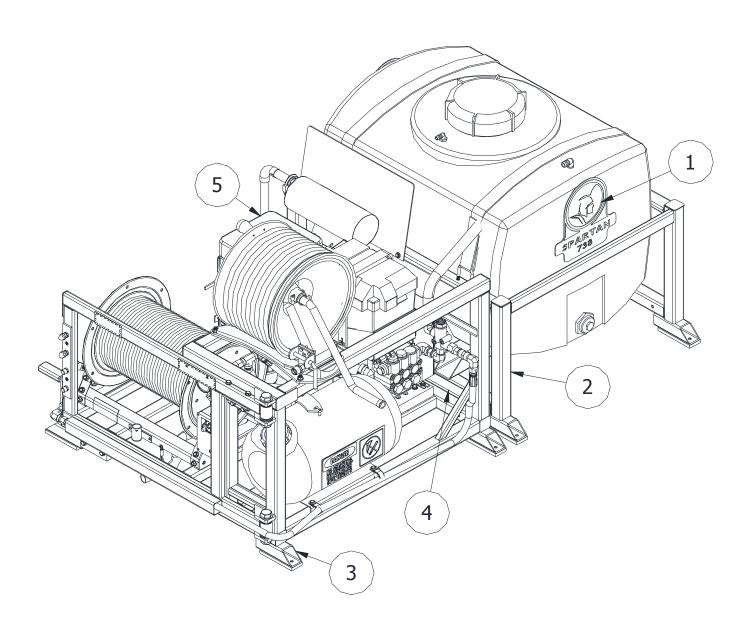
# Diagrams Published in 2011 Manual





### Appendix A Diagrams Published in 2011 Manual

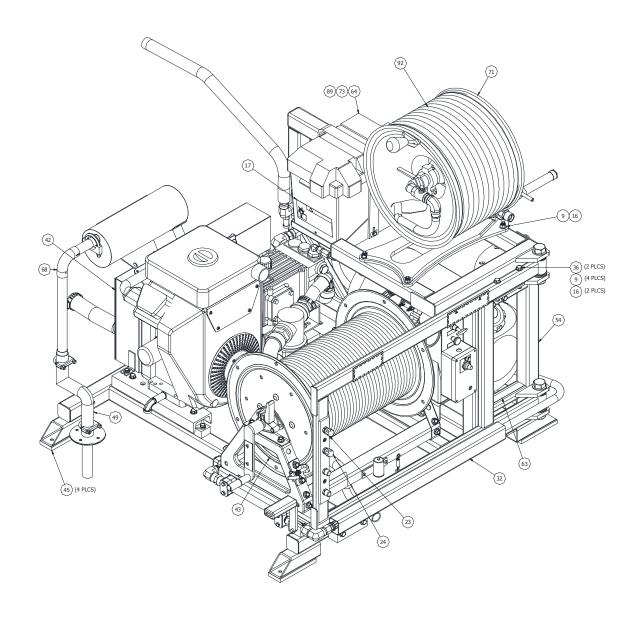
#### 738 SKID MOUNT W/TANK ASSEMBLY - 738000SM

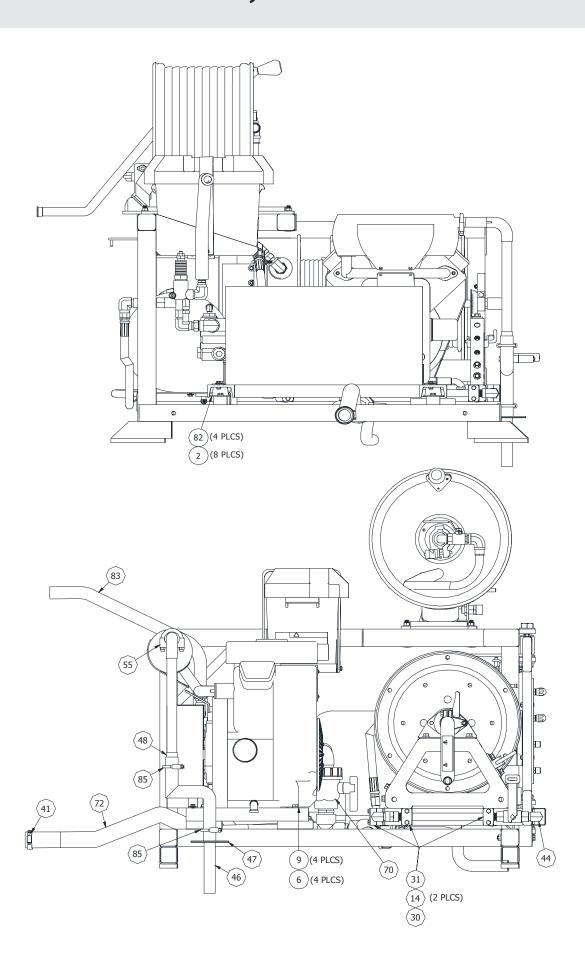


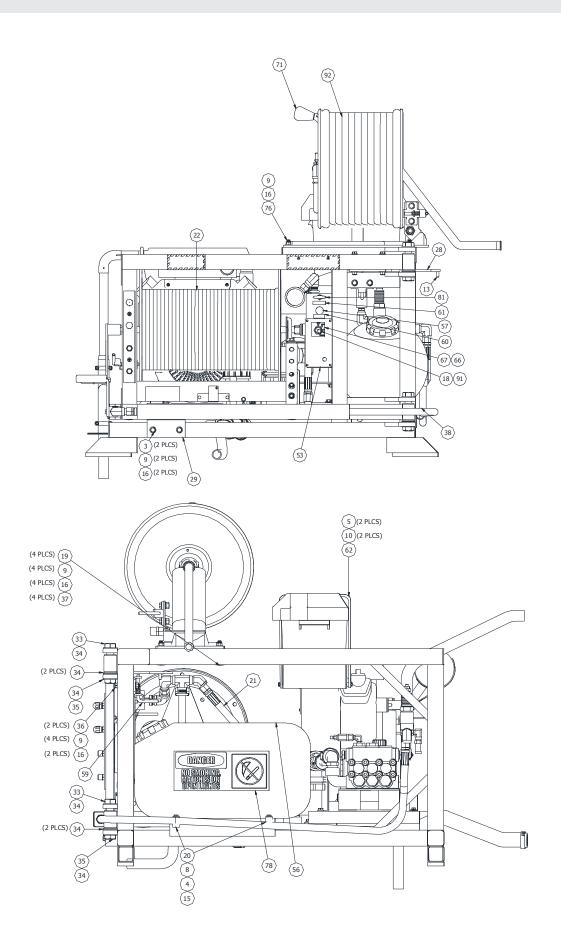
Item	Part Number	Description	Qty.
1	73817100	Decal, Spartan 738	2
2	73829500	Assy., Water Tank w/Frame	1
3	73832000	Assy., 738 Skid Mount	1
4	73832800	Assy., 738 Skid Mount Spacer	1
5	75819900	Strip, Muffler Support	2

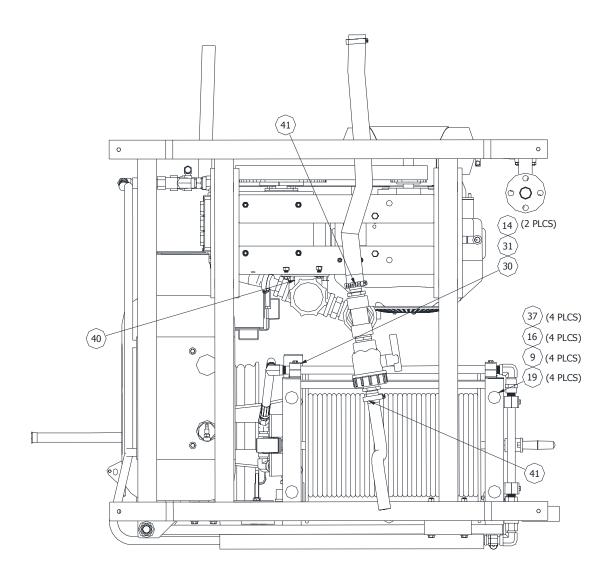
### Appendix A Diagrams Published in 2011 Manual

#### **738 SKID MOUNT ASSEMBLY - 73832000**







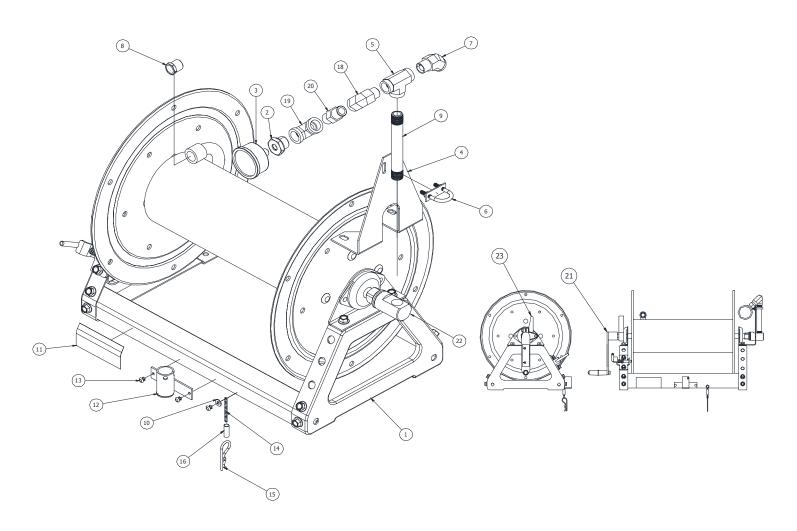


Item	Part Number	Description	Qty.
1	00113600	Screw, Hex HD Cap 1/4-20 x 5/8	4
2	00115100	Screw, Hex HD Cap 5/16-18 x 4	8
3	00117500	Screw, Hex HD 3/8-16 x 4	2
4	00162600	Washer, Flat 5/16 USS	2
5	00165400	Washer, Lock Split 1/4	2
6	00165800	Washer, Lock Split 3/8	4
7	02825100	Washer, Flat 1/4 USS	4
8	02939000	Screw, Cap Hex HD 5/16-18 x 3/4	2
9	03366300	Washer, Flat 3/8 SAE	22
10	04728200	Screw, Hex HD 1/4-20 x 3/8	2
11	44235901	Tool Box 468	1
12	44298100	Keychain, Spartan Logo	1
13	50209200	Pin, Dowel 5/16 x 1	1
14	521012-04	Screw, Hex HD 1/4-20 x 1-1/2	8
15	522122-00	Nut, Lock 5/16-18	2
16	522132-00	Nut, Nylon Locking 3/8-16	14
17	585463-01	Decal, Warning Battery	1
18	61018000	Holder, Fuse	1
19	61030600	Plug, 1-1/4	8
20	72715100	Clamp, 1-1/8 ID Plastic Coated	2
21	73808100	Hose, HP 1/2 NPT x 19 Long	1
22	73808600	Hose, 3/8 x 250 Black	1
23	73809300	Nozzle, Open 738	1
24	73809400	Nozzle, Cosed 738	1
27	73826700	Assy., Wire Harness-Relay 738	1
28	73828700	Plate, Skid Mount Index	1
29	73829070	Support, Swing Arm End	1
30	73829200	Clamp, 1/2" Pipe (2Halves)	4
31	73829900	Cover Plate, 1/2" Pipe Clamp	4
32	73829900	Assy., Swing Arm (Skid Mount)	1
33	73830300	Screw, Hex HD 7/8-14 x 4-1/2	2

Item	Part Number	Description	Qty.
34	73830400	Washer, Flat 7/8 SAE	6
35	73830500	Nut, Nylon Locking Jam 7/8-14	2
36	73830600	Screw, Hex HD 3/8-16 x 2-3/4	4
37	73830700	Screw, Hex Flange HD 3/8-16 x 3/4	4
38	73830800	Hose, HP 1/2 NPT x 87 Long	1
39	73830900	Cable, Negative Battery 60" Long	1
40	73831000	U-Bolt, 3"Tube OD w/Nuts	1
41	73831200	Clamp, Hose 1-1/16"-2"#24	5
42	73831400	Assy., Power Pack (738 Skid)	1
43	73831600	Assy., HP Reel (738 Skid)	1
44	73831900	Assy., HP Pipe (738 Skid)	1
45	73832500	Pad, Rubber Isolator	4
46	73833200	Weldment, Exhaust Bulkhead	1
47	73833300	Gasket, Exhaust Bulkhead	2
48	73833400	Adapter, Exhaust	1
49	73833500	Pipe, Flexible Exhaust	5 ft.
50	73833600	Solenoid, Starter (738 19 HP)	1
51	73833700	Screw, Self Drilling 1/4-20 x 1	4
53	73835900	Enclosure, Ignition Switch Skid	1
54	73837000	Assy., Skid Mount Frame	1
55	75803100	Clamp, Muffer 1-1/4	1
56	75813500	Assy., Gas Tank	1
	75817900	Cap, Fuel Tank w/Gauge	1
57	75807400	Control, Choke	1
58	75808500	Cable, Positive Battery 78" Long	1
59	79816600	Assy., Swivel Lock	1
60	75813900	Decal, Choke	1
61	75814000	Decal, Throttle	1
62	75814700	Strap, Battery Hold Down	1
63	75815100	Decal, Gasoline Only	1

Item	Part Number	Description	Qty.
64	75815300	Modified Box, Battery	1
66	75818300	Ignition Switch	1
	75815927	Key Ignition Kawasaki	1
67	75818600	Decal, Key Switch	1
68	75821500	Weldment, Exhaust Extention	1
69	75823600	Relay	1
70	75824800	Assy., Strainer (Skid Mount)	1
71	75867000	Fill Reel Assy.	1
72	77710200	Hose, 1-1/4 ID x 4 Spiral SM	10 ft.
73	77728900	Cap, Cable #5704 Red	1
77	77763900	Elbow, 45 Deg Street 1/2 Steel	1
78	77766300	Label, Danger "No Smoking"	1
79	77768800	Tie Wire-Plastic	8
80	77768900	Holder, Wire Tie Adhesive Backed	8
81	77771501	Throttle Control, Locking	1
82	77785200	Mount, Motor	4
83	77785900	Hose, Push Lok 3/4	4 ft.
85	79823800	Clamp, Muffler 1-1/2	2
86	79827900	Tubing Heat Shrink 1.1-3/8	1 ft.
87	79842100	Clamp, Hose 3/16	2
88	79842200	Clamp, Hose 1/2	3
89	79847800	Battery, Diesel 875 CCA	1
90	79849800	Hose, Fuel 5/16 ID	4 ft.
91	79850400	Fuse, 15 Amp x 1-1/4 LG	1
92	79944100	Hose, Garden 5/8 x 100'	1

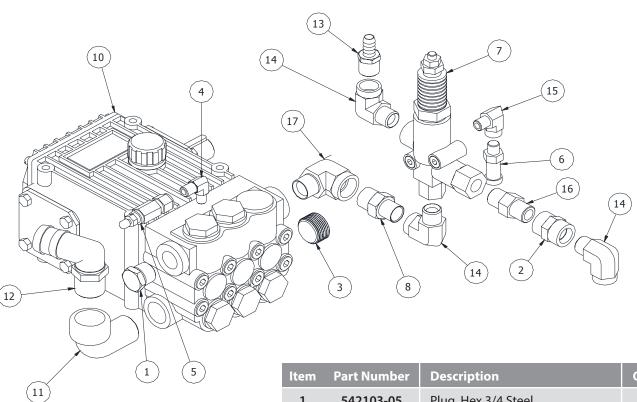
#### 738 H.P. REEL ASSEMBLY - 73831600



Item	Part Number	Description	Qty.	Item	Part Number	Description	Qty.
1	73832300	Reel, High Pressure (738 Skid)	1	12	73816000	Weldment, Hose Holster (HP Reel)	1
2	542104-05	Bushing, Reducer 1/2 x 1/4	1	13	77726500	Rivet, Blind 3/16 Dia. (.062125)	3
3	73818800	Gauge, 3000 PSI	1	14	77726800	Chain, #5 Double Loop	1 ft.
4	73805800	Support, Valve	1	15	77737100	Pin, Hair 9 Gauge 2.45" Long	1
5	73832200	Tee, 1/2 Female HP Steel	1	16	77749400	Tubing, Heat Shrink 3/8	1 ft.
6	77778900	U-Bolt, 3/4 w/Nuts	1	18	77705101	Elbow, 90 Deg. Street 1/2"	1
7	77763900	Elbow, 45 Deg. Street 1/2 NPT	1	19	72714600	Elbow, 90 Deg. Female 1/2"	1
8	73820600	Bushing, Reducer 1/2 x 3/8	1	20	77770800	Nipple, Hex 1/2 NPT	1
9	73832100	Pipe, 1/2 Black Steel 6" Long	1	21	73817500	Handle, Reel	1
10	00162400	Washer, Flat 3/16 USS	1	22	73819000	Assy., Reel Swivel	1
11	72707800	Decal, Warning - HP Water Jet	1	23	73828400	Tensioner, Cam Lock Brake	1

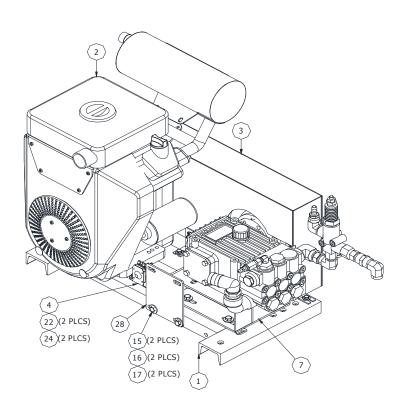
### **Appendix A** Diagrams Published in 2011 Manual

#### 738 SKID MOUNT PUMP ASSEMBLY - 73831300



Item	Part Number	Description	Qty.
1	542103-05	Plug, Hex 3/4 Steel	1
2	542106-04	Coupling, 1/2 Steel	1
3	71132300	Plug, Internal Hex 1" NPT Steel	1
4	71707300	Elbow, 90 Deg. Male 1/4 x 1/8	1
5	71707400	Valve, Check w/Air Valve	1
6	73810700	Valve, Popoff	1
7	73810800	Unloader, Giant	1
8	73811700	Nipple, 3/4 x 1/2 HP	1
10	73827300	Pump, Speck NP25/50-150	1
11	75803200	Elbow, ST 90 Deg. 1" Polypro	1
12	75824600	Elbow, 1 NPT x 1-1/4 Hose Barb	1
13	77704900	Fitting Push-Lok 1/2-14	1
14	77705101	Elbow, 90 Deg. Street 1/2 Steel	3
15	77724300	Elbow, 90 Deg. Street 1/4 Steel	1
16	77770800	Nipple, 1/2 x 1/2	1
17	79816200	Elbow, 90 Deg. Street 3/4 Steel	1

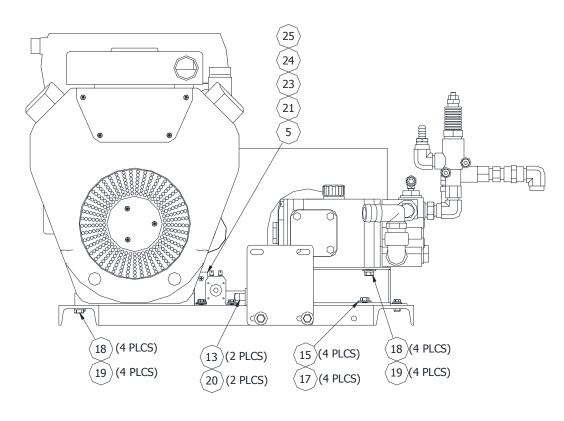
#### 738 SKID POWER PAK ASSEMBLY - 73831400

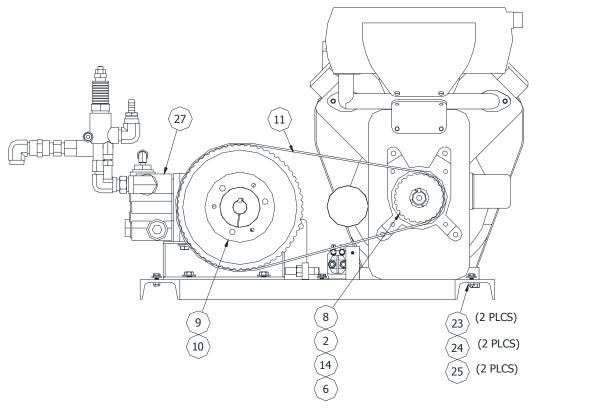


Item	Part Number	Description	Qty.
1	73801600	Weldment, Power Pak 738-758	1
2	73831500	Engine, 19 HP Kawasaki	1
	73819300	Solenoid, Fuel	1
	73852900	Starter, 19 HP Kawasaki	1
3	75820300	Weldment, Belt Guard	1
4	73833600	Solenoid, Starter 738 19 HP	1
5	75820800	Bracket, Belt Guard	1
6	75811600	Bushing H1-1/8	1
7	73828000	Weldment, Pump Mount 738	1
8	73810000	Sheave, Engine Drive, 24 Teeth	1
9	73810400	Sheave, Driven (60H150SF)	1
10	73810500	Bushing, Driven (SF x 28mm)	1
11	73810600	Belt, Drive (480H150)	1

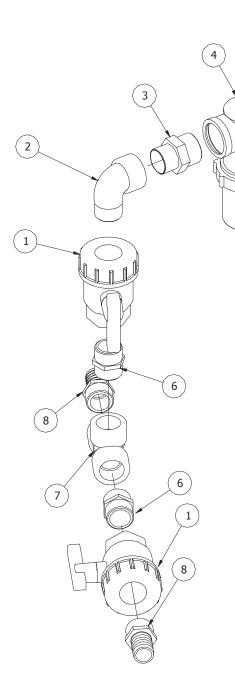
ltem	Part Number	Description	Qty.
13	77727100	Bolt, Belt Adjustment	2
14	79823400	Key, 1/4 x 1/4 x 1-5/8	1
15	521035-03	Screw, Hex HD 3/8-16 x 1	6
17	522132-00	Nut, Nylon Locking 3/8-16	6
18	75822800	Screw, Cap M10 x 25mm	8
19	44029500	Washer, Split Lock M10	8
20	00778000	Nut, Hex 1/2-13	2
22	00113600	Screw, Hex HD 1/4-20 x 5/8	1
23	521012-03	Screw, Hex HD 1/4-20 x 3/4	3
24	02825100	Washer, Flat 1/4 USS	4
25	00165400	Washer, Lock Split 1/4	4
27	73831300	Assy., Pump - 738 Skid Mount	1
28	73831100	Plate, Strainer Assy. Mounting	1

# **Appendix A** Diagrams Published in 2011 Manual 738 Skid Power Pak Assembly - 73831400



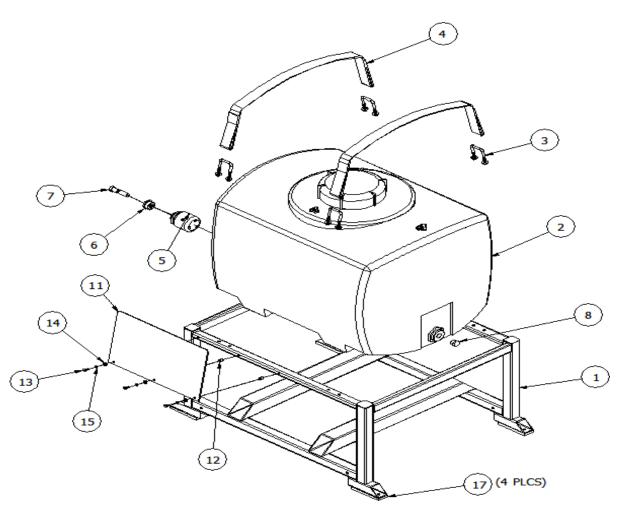


### **STRAINER (SKID MOUNT) ASSEMBLY - 75824800**



Item	Part Number	Description	Qty.
1	79811500	Valve, Ball 1-1/4 FNPT x 1-1/4	2
2	79811300	Elbow, 90 Deg. St 1-1/4 MPT x 1-1/4	1
3	79811600	Nipple, 1-1/2 x 1-1/4 MPT Polypro	1
4	79811700	Filter 1-1/2 FPT Polypro	1
	73827000	Gasket, Water Filter	1
5	75824700	Hose Barb, 1-1/2 MPT x 1-1/4	1
6	75802900	Nipple, Close 1-1/4 Polypro	2
7	75803000	Tee 1-1/4 FNPT Polypro	1
8	79812000	Barb, Hose 1-1/4 MPT x 1-1/4 Polypro	2

#### WATER TANK W/FRAME SKID ASSEMBLY - 73829500

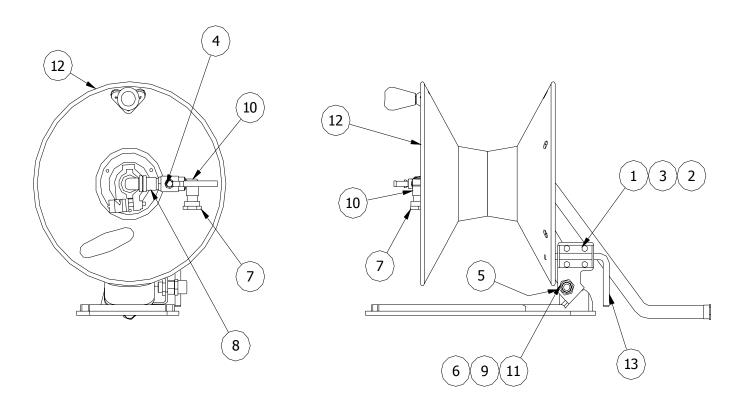


ltem	Part Number	Description	Qty.
1	73836000	Assy., Water Tank Frame	1
2	73829400	Assy., Water Tank (Skid Mount)	1
3	73829700	U-Bolt, Square 2" x 2-5/8" (3/8-16)	4
4	73829800	Strap, Water Tank Hold Down	2
5	73827800	Bulkhead Fitting w/PVC Cap	1
6	73827600	Bushing, Reducer (Modified)	1
7	75823200	Switch, Liquid Level	1
8	61019200	Plug, 3/4 Polypropylene	1
9*	62008400	Disconnect, Male .250 Tab 22-18	1
10*	534004-01	Disconnect, Female .250 Tab 22-18	1

Item	Part Number	Description	Qty.
11	73832900	Shield, Heat - Skid Mount	1
12	73833000	Nut, Rivet 1/4-20 x 3/4	3
13	521012-03	Screw, Hex HD 1/4-20 x 3/4	3
14	02825100	Washer, Flat 1/4 USS	3
15	00165400	Washer, Lock Split 1/4	3
17	73832500	Pad, Rubber Isolator	4
18*	73832400	Screw, Hex HD 3/8-16 x 4-3/4	2
19*	00162700	Washer, Flat 3/8 USS Zinc Pltd	4
20*	522132-00	Nut, Nylock 3/8-16	2

<sup>\*</sup> Not Shown

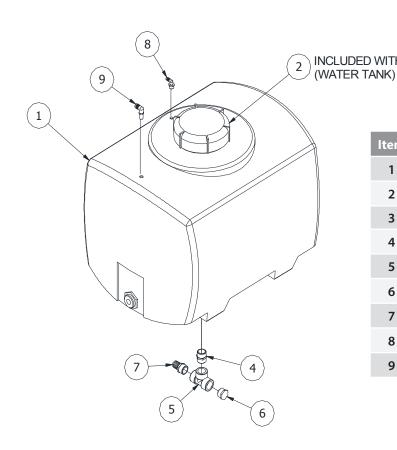
#### FILL REEL ASSEMBLY - 75867000



Item	Part Number	Description	Qty.
1	00113901	Screw, Hx HD Cap 1/4-20 x 1 Zn	4
2	02821200	Nut, Nylock Jam 1/4-20	4
3	02825100	Washer, Flat 1/4 USS	4
4	72704800	Valve, Ball 1/2 M x 1/2 F	1
5	75867010	Bracket, Fill Reel Latch - 2010	1
6	75867020	Locknut, Pipe 1/2" NPT	1
7	75867030	Adapter, 3/4 GHT Swvl - 1/2 NPT	1
8	75867040	Adapter, 3/4 FGHT Swvl - 1/2 FNPT	1
9	77770800	Nipple, Hex 1/2 NPT	1
10	79904464	St El 90D 1/2 NPT Brass	1
11	79904492	Adapter, Garden Hose 3/4M-1/2FM	1
12	79940300	Rapid Reel, 2008 Fill	1
13	79966320	Latch, Spring Bolt Zn Plt	1

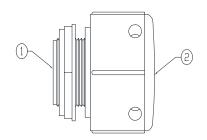
# **Appendix A** Diagrams Published in 2011 Manual 738 Hitch Tube Assembly - 73806800

#### WATER TANK SKID MOUNT ASSEMBLY - 73829400



Item	Part Number	Description	Qty.
1	73828601	Tank, 100 Gal Water	1
2	73828610	Cap, Water Tank	1
3	79818500	Bulkhead Fitting 1-1/4 Polypro	1
4	75802900	Nipple, Close 1-1/4 Polypro	1
5	75803000	Tee, 1-1/4 FNPT Polypro	1
6	73829600	Plug, 1-1/4 Polypro	1
7	79812000	Barb, Hose 1-1/4 MPT x 1-1/4 PO	1
8	75811700	El, 90 Deg. Hose Barb 1/2 MPT x 1/2	1
9	75867300	Flbow, Nozzle Body w/Nut 5/8	1

#### **BULKHEAD FITTING W/PVC CAP - 73827800**



Item	Part Number	Description	Qty.
1	73827700	Bulkhead Fitting, 1-1/4	1
2	73827500	Cap, PVC 2-1/2 NPT	1

#### **SPECK PUMP NP25/50-150 - 73827300**

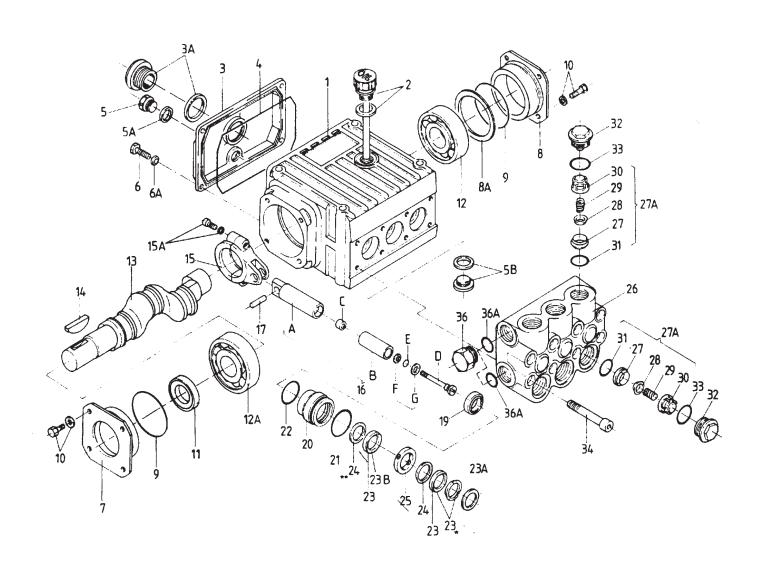
ltem	Part Number	Description	Qty.
1	73810205	Crankcase	1
2	73810206	Oil Fill Plug w/Gasket	1
3	73810207	Crankcase Cover	1
3A	73810208	Oil Sight Glass w/Gasket	2
4	73810209	O-Ring	1
5	73810210	Oil Drain Plug	1
5A	73810211	Gasket for Oil Drain Plug	1
5B	73810212	Plug w/Gasket	1
6	73810213	Screw	4
6A	73810214	Spring Washer	4
7	73810215	Bearing Cover Open	1
8	73810216	Bearing Cover Closed	8
8A	73810217	Shim	1
9	73810218	O-Ring	2
10	73810219	Screw, w/Washer	8
11	73810220	Radial Shaft Seal	1
12	73810221	Bearing	1
12A	73810222	Bearing	1
13	73810223	Crankshaft	1
14	73810224	Key	1
15	73810225	Connecting Rod Assembly	3
15A	73810226	Screw w/Washer	6
16	73810227	Plunger Assy., 25mm	3
16A	73810228	Plunger Base	3
16B	73810229	Plunger Pipe, 25mm	3
16C	73810230	Centering Sleeve	3
16D	73810231	Tensioning Screw	3
16E	73810232	O-Ring	3
16F	73810233	Backup Ring	3
16G	73810234	Copper Washer	3

ltem	Part Number	Description	Qty.
17	73810235	Crosshead Pin	3
18	73810236	O-Ring	3
19	73810237	Oil Seal	3
20	73810238	Seal Case	3
21	73810239	O-Ring	3
22	73810240	O-Ring	3
23	73810241	V-Sleeve, 25mm	3
23A	73810242	Spacer Ring	3
23B	73810243	Weep Seal	3
24	73810244	Pressure Ring	6
25	73810245	Weep Return Ring	3
26	73810246	Manifold	1
27	73810247	Valve Seat	6
27A	73810248	Valve Assembly	6
28	73810249	Valve Plate	6
29	73810250	Valve Spring	6
30	73810251	Valve Spring Retainer	6
31	73810252	O-Ring	6
32	73810253	Plug	6
33	73810254	O-Ring	6
34	73810255	Cap Screw	8

#### 738 PUMP TORQUE SPECIFICATIONS

Item	Part Number	Description	Torque Amount
15A	73810226	Screw w/Washer	216 in lbs.
16D	73810231	Tensioning Screw	240 in lbs.
32	73810253	Plug	125 in lbs.
34	73810255	Cap Screw	35 in lbs.

# **Appendix A** Diagrams Published in 2011 Manual Speck Pump NP25/50-150 - 73827300



### 738 PUMP REPAIR KITS

#### PLUNGER PACKING KIT (73810256)

Part Number	Description	Qty.
73810239	O-ring	3
73810240	O-ring	3
73810241	V-Sleeve	3
73810243	Weep Seal	3
73810244	Pressure Ring	6

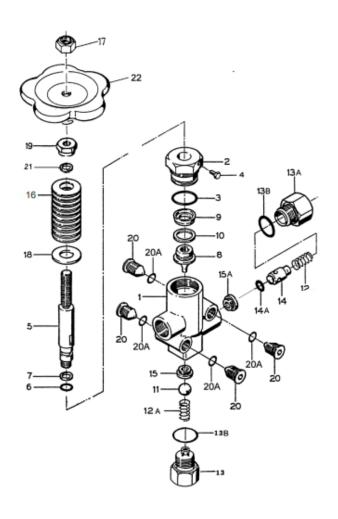
#### **OIL SEAL KIT (73810257)**

Part Number	Description	Qty.
73810237	Oil Seal	3

#### **VALVE ASSY. KIT (73810258)**

Part Number	Description	Qty.
73810248	Valve Assy., Complete	6
73810233	O-ring	6

#### 738 UNLOADER - 73810800



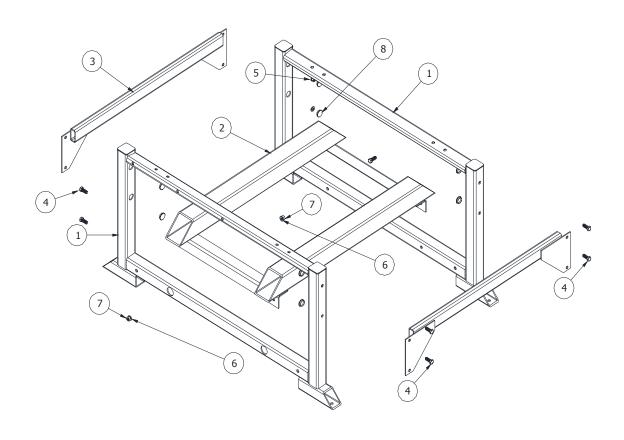
#### **REPAIR KIT 73810827**

ltem	Part Number	Description	Qty.
3	73810803	O-ring, Valve Cap	1
6	73810806	O-ring, Plug	4
6A	73810807	O-ring, Valve Stem	1
7	73810808	BackUp Ring, Valve Stem	2
9	73810810	Cup, 23mm	1
10	73810811	BackUp Ring, Piston	1
13B	73810817	O-ring, Spring Retainer	2
14A	73810819	O-ring, Outlet Valve	1

ltem	Part Number	Description	Qty.
1	73810801	Valve Body	1
2	73810802	Valve Cap	1
3*	73810803	O-ring, Valve Cap	1
4	73810804	Set Screw, Valve Cap	1
5	73810805	Valve Stem	1
6*	73810806	O-ring, Plug	4
6A *	73810807	O-ring, Valve Stem	1
7*	73810808	BackUp Ring, Valve Stem	2
8	73810809	Piston	1
9*	73810810	Cup, 23mm	1
10 *	73810811	BackUp Ring, Piston	1
11	73810812	Ball, Inlet	1
12	73810813	Spring, Outlet Valve	1
12A	73810814	Spring, Inlet	1
13	73810815	Inlet Adapter	1
13A	73810816	Spring Retainer, Outlet Valve	1
13B*	73810817	O-ring, Spring Retainer	2
14	73810818	Outlet Valve	1
14A *	73810819	O-ring, Outlet Valve	1
15	73810820	Seat, Inlet Valve - S.S.	1
15A	73810821	Seat, Outlet Valve - Brass	1
16	73810822	Spring, Red 2400 PSI	17
17	73810823	Nut	1
18	73810824	Washer, Spring	1
19	73810825	Adjusting Nut	1
20	73810826	Plug, 1/4"	4

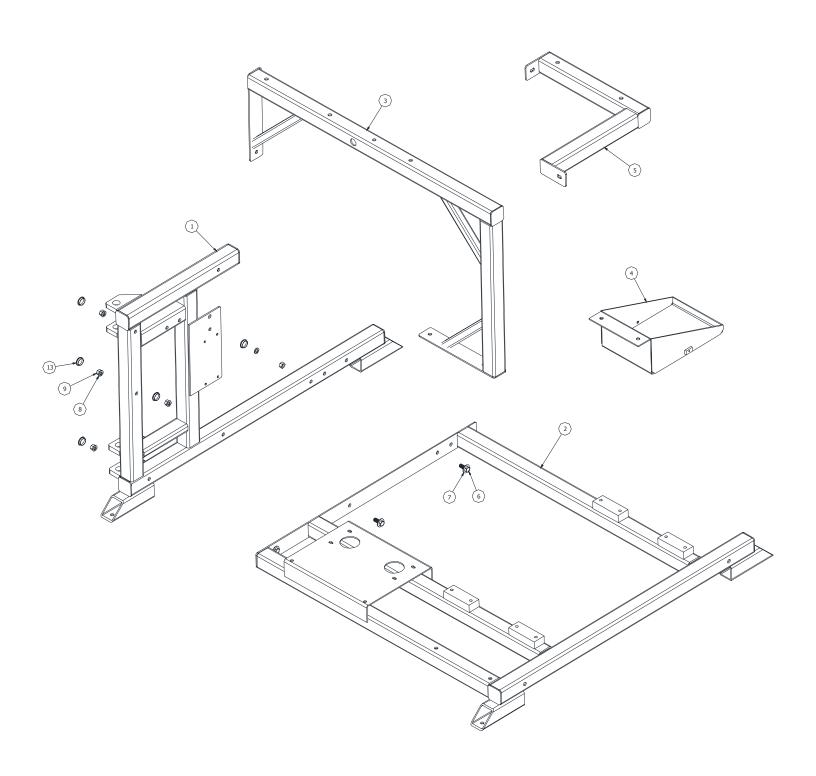
\* Included in Repair Kit (73810827)

#### WATER TANK FRAME ASSEMBLY - 73836000

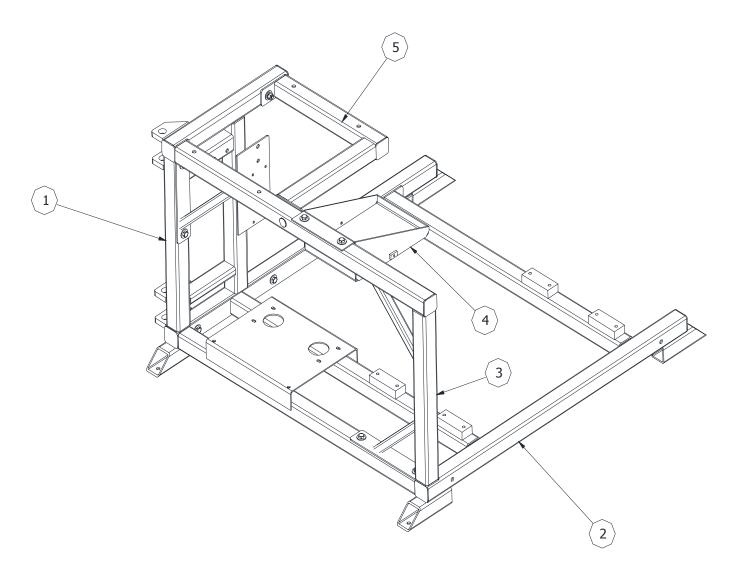


Item	Part Number	Description	Qty.
1	73836400	Weldment, Water Tank Frame	2
2	73836100	Weldment, Tank Support	1
3	73836200	Weldment, Upper Brace	2
4	77738100	Screw, Cap Hex HD 3/8-16 x 1"	12
5	00162700	Washer, Flat 3/8 USS Zinc Pltd	4
6	00165800	Washer, Lock-Split Medium 3/8	12
7	02934100	3/8-16 Hex Nut Zinc Pltd	12
8	73837100	Plug, Blk Nylon Snap-in	8

#### **SKID MOUNT FRAME ASSEMBLY - 73837000**

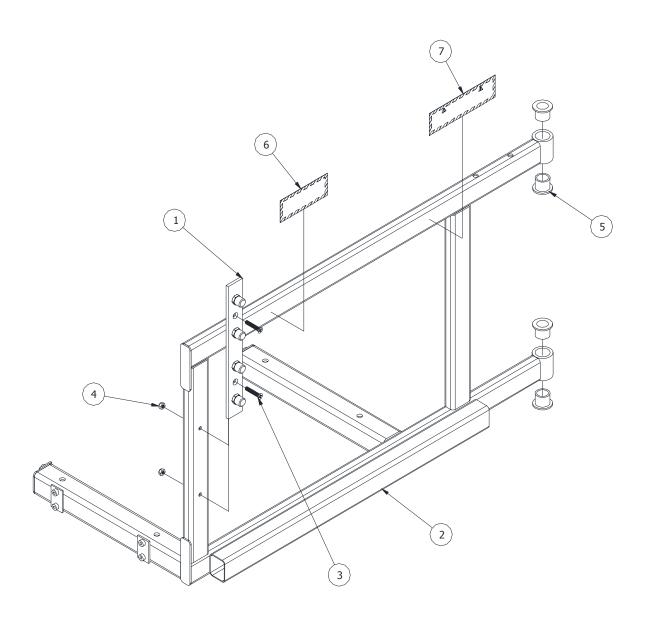


# **Appendix A** Diagrams Published in 2011 Manual Skid Mount Frame Assembly - 73837000



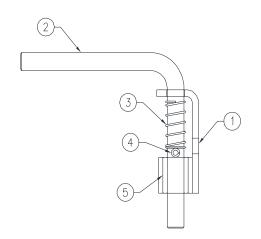
Item	Part Number	Description	Qty.
1	73836500	Weldment, Skid Frame Front	1
2	73836600	Weldment, Skid Frame Base	1
3	73836700	Weldment, Skid Frame Side	1
4	73836900	Weldment, Battery Tray	1
5	73836800	Weldment, Skid Frame Reel	1
6	77738100	Screw, Cap Hex HD 3/8-16 x 1	11
7	00162700	Washer, Flat 3/8 USS Zinc Pltd	11
8	00165800	Washer, Lock Split Medium 3/8	11
9	02934100	3/8-16 Hex Nut Zinc Pltd	11
13	73837100	Plug, Blk Nylon Snap-in	11

### **SWING ARM (SKID MOUNT) ASSEMBLY - 73829900**



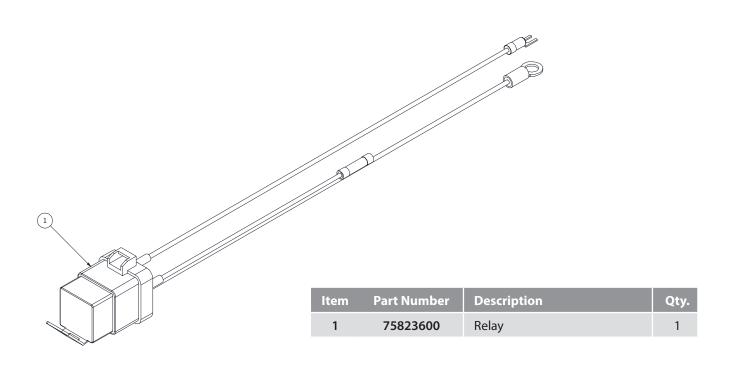
Item	Part Number	Description	Qty.
1	73829060	Weldment, Nozzle Holder	1
2	73837500	Weldment, Swing Arm	1
3	73830100	Screw, Flat HD 1/4-20 x 1-1/2	2
4	02821200	Nut, Nylock Jam 1/4-20	2
5	73820200	Bearing, Flanged Bronze 7/8 ID	4
6	77739800	Decal, Caution Manual Reel	1
7	77739900	Decal, Warning Rear	1

#### **SWIVEL LOCK ASSEMBLY - 79816600**

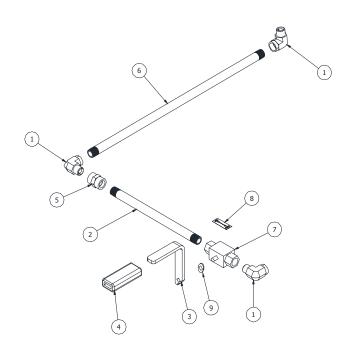


ltem	Part Number	Description	Qty.
1	79816500	Weldment, Swivel Lock	1
2	79815300	Pin, Swivel Lock	1
3	02888500	Spring, Compression	1
4	44213000	Pin, Roll Pin 1/4x 1/50	1
5	03421300	Bronze Brg Mdl -81	1

#### **WIRE HARNESS-RELAY ASSEMBLY - 73826700**

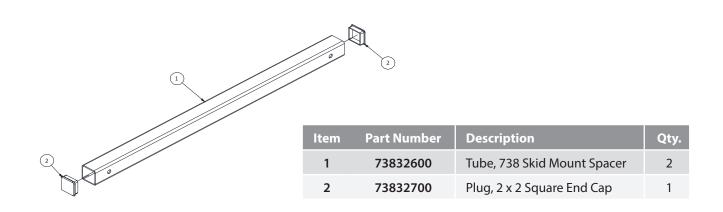


#### **HP PIPE (738 SKID) ASSEMBLY - 73831900**



ltem	Part Number	Description	Qty.
1	77705101	Elbow, 90 Deg. Street 1/2"	3
2	73831800	Pipe, 1/2" Steel 12" Long	1
3	73816100	Handle, High Pressure	1
4	71102500	Grip, Foam Black	1
5	54106-04	Coupling, 1/2" Steel	1
6	73831700	Pipe, 1/2" Steel 24" Long	1
7	75814600	Valve, Ball 1/2 NPT w/Decal	1
8	73817800	Decal, On/Off	1
9	73818900	Washer, Stop	1

#### 738 SKID MOUNT SPACER ASSEMBLY - 73832800



#### **OPTIONAL 738 ACCESSORIES**

Part Number	Description
73809300	Nozzle, Open
73809400	Nozzle, Closed
77724000	Reducer 1/2 x 3/8
75700200	Q-Nozzle
73820700	Nozzle, Grenade Bomb with Reducer
73700200	Rotating Nozzle
73821500	3/8 x 15 ft. Leader Hose
73700100	3/8 x 75 ft. Hose
73808601	3/8 x 150 ft. Hose
73808602	3/8 x 250 ft. Hose
73808600	3/8 x 350 ft. Hose
73808603	1/4 x 33 ft. Hose
*77719400	1/4 x 50 ft. Hose
77719500	1/4 x 75 ft. Hose
77708700	1/4 x 100 ft. Hose
73816800	Mobile Hose Reel
77763700	Venturi Pump
*77799800	Handgun Lance Vari-Nozzle Assembly
*73816500	Adapter, Swivel 3/8M to 3/8F
73817300	Wash Down Accessory Kit
44237200	468 Root Cutter
34/3-1	3" - Model 34 Root Cutter
34/3-2	4" - Model 34 Root Cutter
34003701	Root Cutter Adapter Hose
199106-04	Foot Pedal Valve Kit
77773903	Foot Pedal
77800600	Hose Guard (Tiger Tail)

<sup>\*</sup> Included in Washdown Accessory Kit



### **CONTACT US**

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